


```

OY 72 L-KREVVHMPDRTEENELFDLALNVLPGLSMOSVTKLNDFEVEIRGTLMKMCESFIV 130
Db 73 FYTLKTYVPPQREDEYKSEFVSLGNHVFENDSFQIRVYIKTKIKKDSAMLLSGSHLLH 132
OY 131 NOTLMLKLOETNYVYMLIDPVIKPGDLMAELLAVPVLTLRISVGMMNRSCKLPAPLS 190
Db 133 NKEMLASSSSFDVYMLIDPFLPCSPYIAQVLSLPIVFFLH-ALPCLSEFANQCPNPF 191
OY 191 YVVPMTGLDRMTFLERKNSMLSVLFHMIODYDHEWEEFYKALGPPTLCEYVGK 250
Db 192 YVPRPSSSDHMTFLQRYKNNMLAFSQNF-LCDVYVSPATLASEFLQREYVYODLISS 250
OY 251 AEIWLIRTWDEFPOPIQNEFEVGLHCKPAKALPKEMENFVSSGGEIYVESLGL 310
Db 251 ASWMLRSDPVADYPRIPNMFVFGINCILHONPLSQEFAYINAGSHGVFVSLGSM 310
OY 311 FQNTVEKANIISALAOIPQKVLNRYKGRKSTLGCANTRLYDWIPONDILGHPKRAF 370
Db 311 VSEIEKKAMAIADALGNKQVTLNRYTGTSTNLANNTILVKKMLPONDILGHPMTRAF 370
OY 371 THGKNGIYEALYHGVPMVGPVIFGDOLDNIAHMKAKGAAYEINFKTMSEDLALATV 430
Db 371 THAGSHGYESTCNGVPMVMPLEFGDOMDNKRMETKAGVTLNVLNEMTSEDLNVALKAV 430
OY 431 ITDSYKNNMRLSRIRHDDPVKPLDRAVFWEIEFMRKGAHLSAANDLTWFOHSID 490
Db 431 INDSYKNNMRLSRIRHDDPVKPLDRAVFWEIEFMRKGAHLSAANDLTWFOHSID 490
OY 491 VIGFLTCVATVATFLFKCFLFCSCQ-FNKTRKIEK 525
Db 491 VIGFLTCVATVATFLFKCFLFCSCQ-FNKTRKIEK 525

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RESULT 2

```

PCT-US92-00282-6
; Sequence 6, Application PC/TUS9200282
GENERAL INFORMATION:
APPLICANT: OWENS, IDA S.
APPLICANT: RITTER, JOSEPH K.
TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESSES:
ADDRESS: CUSHMAN DARBY & CUSHMAN
STREET: 1615 L STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/00282
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, WATSON T.
REGISTRATION NUMBER: 26581
TELEPHONE/DOCKET NUMBER: 91532-PCT
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 531 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear

```

MOLECULE TYPE: protein
PCT-US92-00282-6

Query Match 40.3%; Score 1128.5; DB 5; Length 531;
Best Local Similarity 44.3%; Pred. No. 1e-113;
Matches 234; Conservative 91; Mismatches 174; Indels 29; Gaps 9;

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OY 11 LLLQPCVGGCGFGKYLWPCDMSHMLNVLIEELIVRGHEVTLHRSKSLIDRK-P 69
Db 13 LLLLLALPRAEGKVLVPEMGSNMLSMRDVRELHANGQAVLA---PEVYMKKE 69
OY 70 SALKFEVHMPDRTE-ENEIFVDLALNVLPG-----LSTQSVTKLNDFEVEIRGTLM 122
Db 70 DEFTLQTVAFPYTKKEVQREILIGNAKKGEPOHFKVTFEETMASIKKFDLYAN----- 123
OY 123 MNCESFIVNOTLMLKLOETNYVYMLIDPVIKPGDLMAELLAVPVLTLRISVGMMNRSCK 182
Db 124 -SCALLLNKKTILQDNLSSSFDVYMLIDPFLPCGALLAKYLQIPAVFELR-SVPCGIDEA 181
OY 183 GKLPAPLSYVVPMTGLDRMTFLERKNSM---LSVLFHMIODYDHEWEEFYKAL 238
Db 182 TQCPKPSYIENLTLMSDHTFLQRYKNNMLYPLTKICHLSTPY-----ESLASLL 236
OY 239 GRPTTLCEYVGAETWILIRTWDEFPOPIQNEFEVGLHCKPAKALPKEMENFVSSG 298
Db 237 QREMSLVEVLSHAWVLFKQDFVDPYPRIPNMFVFGINCIVKPKLQSEFAYVANS 296
OY 299 EDGIVVPSLSLQNTVEKANIISALAOIPQKVLNRYKGRKSTLGCANTRLYDWIPON 358
Db 297 EHGIVVPSLSLQNTVEKANIISALAOIPQKVLNRYKGRKSTLGCANTRLYDWIPON 356
OY 359 DLGHPKTAFLTHGKNGIYEALYHGVPMVGPVIFGDOLDNIAHMKAKGAAYEINFKTM 418
Db 357 DLGHPKTAFLTHGKNGIYEALYHGVPMVGPVIFGDOLDNIAHMKAKGAAYEINFKTM 416
OY 419 TSEDLRALRTYITDSYKNNMRLSRIRHDDPVKPLDRAVFWEIEFMRKGAHLSAANDLT 478
Db 417 TSEDLRALRTYITDSYKNNMRLSRIRHDDPVKPLDRAVFWEIEFMRKGAHLSAANDLT 476
OY 479 HLLTFQHSIDVIGFELTCVATVATFLFKCFLFCSCQ-FNKTRKIEK 525
Db 477 HLLTFQHSIDVIGFELTCVATVATFLFKCFLFCSCQ-FNKTRKIEK 524

```

RESULT 3

```

PCT-US92-00282-5
; Sequence 5, Application PC/TUS9200282
GENERAL INFORMATION:
APPLICANT: OWENS, IDA S.
APPLICANT: RITTER, JOSEPH K.
TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESSES:
ADDRESS: CUSHMAN DARBY & CUSHMAN
STREET: 1615 L STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/00282
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, WATSON T.
REGISTRATION NUMBER: 26581

```

```

REFERENCE/DOCKET NUMBER: 91532-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 531 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-00282-5

```

Query Match 38.4%; Score 1077; DB 5; Length 531;
 Best Local Similarity 42.6%; Pred. No. 4e-108;
 Matches 227; Conservative 91; Mismatches 181; Indels 34; Gaps 9;

```

QY 6 SALVELLQLFCVCGCGKVLWPCDMSHMLNVKYLEELIVRGHEVYLTLSKPSLID 65
   : ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
   13 AGVEFLALMGVNG---DKLLVPQDSHMLSMKDIYEVLDRGHELVVVVPEVNNLLK 68
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 66 YRKSALKEFVYVHPDQTE-----ENEIFVDLALNVLPGISTWQSVIKLDFEVEI 117
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 69 EYKYYTRK--IYVPYDOEELKNKYQSGNNHFAERSFLTAPQTEYRNMMIVIGITFIN- 125
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 118 RGLTKMCESEFIYQTLKKLQETNYDVMIDPVI PCGDLMAELLAVPVLTLRISVGN 177
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 126 -----CQSLQDRDLINFEKESKFDALFTDPALPCGVIIAEYGLPSYLFGR-GRPCS 177
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 178 MERSCGKLPAFLSVYVPMGLTDRMTFLERVKNSMLSV-----LFHFIIQDYHFMEEF 233
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 178 LEHFERSRDPVSYIIPRCYTKFSDFHMFESQVAVNLFVMLLEPYLFYCEFSK-----EKL 232
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 234 YSKALGRPTICEYVGRKAEIILRTYMWDFEFPQYQRPNEFVGGLHCKPAKAPKEMENF 293
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 233 ASAYALKRVDIT--TLSEYSVWLLRDFVLEYPVPVPMNVEFVIGINCKRRKDLSEFEAY 291
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 294 VOSSGEDIYVESLGLSFONYTEEKANITIASALAIQIPQVLMRYKGGKPSLTGANTREYD 353
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 292 INASEHGIVFSLGSMSVSEIPEKKAMAIADALGKNPOTVLMRYGTGRPSNLANTILYK 351
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 354 WIPQDILGHPTKAFITTHGNGNGIYEAIYHGVPMVGVPIFGDQDLNTHMKAKGAVEI 413
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 352 WLPOQDLGHMTTRAFITTHAGSHGYESICNGVPMVMPLEFDQDMNKRMBETKAGVTL 411
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 414 NFKTMSDDLRLALFTVITDSSYKENAMRLSRHHQDPVKPLDRAVFIETVYMRHKGAKH 473
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 412 NVLEMTSEDLERALKAVINDSKYKINIMLSLHKDRPVEPLDLAVFWVEFVMRHKGAPH 471
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 474 LRSAADLTWFOHYSIDYIGFLTVCVATAIFLFTKCFLESCOK-FNKTRKIKK 525
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 472 LRPAHDLTWYOHSLDIVIGFLAVLVTAFTFRCQPYGPKCLGKKGRVKK 524
   : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

RESULT 4
 PCT-US92-00282-4
 Sequence 4, Application PC/TUS9200282
 GENERAL INFORMATION:
 APPLICANT: OMENS, IDA S.
 APPLICANT: RITTER, JOSEPH K.
 TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
 TITLE OF INVENTION: THEREIN.
 NUMBER OF SEQUENCES: 40
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CUSHMAN DARBY & CUSHMAN
 STREET: 1615 L STREET, N.W.
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20036-5601
 COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/00282
FILING DATE: 19920110
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, MATSON T.
REGISTRATION NUMBER: 26581
REFERENCE/DOCKET NUMBER: 91532-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 534 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-00282-4

```

Query Match 38.4%; Score 1076.5; DB 5; Length 534;
 Best Local Similarity 42.6%; Pred. No. 4.6e-108;
 Matches 231; Conservative 83; Mismatches 171; Indels 57; Gaps 8;

```

QY 11 LLLQFCVCGCGKVLWPCDMSHMLNVKYLEELIVRGHEVYLT-----HSKP----- 61
   : ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
   16 LLLLSVPMASGKVLVYPPIDGSPWLSMREALRHLRGHQAVALTEPVNNHIEEKFE 75
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 62 SLIDYRKSALK-----FEVYVHPDQTEENEIFVDLALNVLPGISTWQSVI 108
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 76 TLTAAYAVPTQKEPDRVTLGTQGFTEHLLKRYSRSMAMINNVSL----- 122
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 109 KINDFEVEIRGLTKMCESEFIYQTLKKLQETNYDVMIDPVI PCGDLMAELLAVPVL 168
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 123 -----ALHRCQVLLHNEALIRHLNATSEVYVLTDPVNLGAVLAKYLSIPAF 171
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 169 TLRISVGNMERSCKKLPAFLSVYVPMGLTDRMTFLERVKNSM-----LSVLFHFMIQD 224
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 172 FWRY-IPDLDKRGTKQCPSPSYIPKLLTNSDHMTFLQKVNMLXPLALSTICHTFSAP 230
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 225 YDHFWEFEYSKALGRPTITCEYVGRKAEIILRTYMWDFEFPQYQRPNEFVGGLHCKPAK 284
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 231 Y-----ASLASLRFQREVSVDLVASYVWLFRRGDFVMDYPRIPMNVFVIGINCANGK 285
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 285 ALPKEMENFVOSSGDIYVESLGLSFONYTEEKANITIASALAIQIPQVLMRYKGGKPS 344
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 286 PLQGFENAVINSGEIGIVFSLGSMSVSEIPEKKAMAIADALGKIPOVYLMRYGTGRPSN 345
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 345 LCATNRLIDMTIQNDILGHPTKAFITTHGNGNGIYEAIYHGVPMVGVPIFGDQDLNTHMK 404
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 346 LANNITILVWLPQNDILGHPTKAFITTHAGSHGYESICNGVPMVMPLEFDQDMNKRMB 405
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 405 KAKGAVEINFKTMSDDLRLALFTVITDSSYKENAMRLSRHHQDPVKPLDRAVFIETVYMR 464
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 406 ETKGAGVTLNVLEMTSEDLERALKAVINDSKYKINIMLSLHKDRPVEPLDLAVFWVEF 465
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 465 VNRHKGAKHLRGAADLTWFOHYSIDYIGFLTVCVATAIFLFTKCFLESCOK-FNKTRKI 523
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 466 VNRHKGAPHLRGAADLTWYOHSLDIVIGFLAVLVTAFTFRCQPYGPKCLGKKGRV 525
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 524 EK 525
   : :
DB 526 KK 527
   : :

```

RESULT 5
 PCT-US92-00282-7

```
Sequence 7, Application PC/TUS9200282
GENERAL INFORMATION:
APPLICANT: OWENS, IDA S.
APPLICANT: RITTER, JOSEPH K.
TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
TITLE OF INVENTION: THEREIN.
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: CUSHMAN DARBY & CUSHMAN
STREET: 1615 L STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/00282
FILING DATE: 19920110
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, WATSON T.
REGISTRATION NUMBER: 26581
REFERENCE/DOCKET NUMBER: 91532-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 529 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-00282-7
```

```
Query Match 37.6%; Score 1052.5; DB 5; Length 529;
Best Local Similarity 42.8%; Pred. No. 1.8e-105;
Matches 227; Conservative 95; Mismatches 173; Indels 35; Gaps 11;

QY 10 FLLQLFCVCGCGFGLVLPDCMSHMLNVKYLEELIVRGHEVTVLTHSKPSLID-----65
DB 14 FLELVLM--GSVLGDKLVLPDQSGHMLSMKEIVELHSEGHDIIVLVPEVNLGLESKY 71
QY 66 YRRPSALKREYVHMPD-----RTENEIFVDLALNVLPGLSTWOSVYKLNDFVEIRGT 120
DB 72 YRRKS---FPVPNLEELRTYRSFGNNHFAASSPLMAPLREYRNMYIDMCF-----122
QY 121 LKMGESFYINOTLMKKLOETNYDVALIDPVIPCGDLMALLAVPVLRLRISVSGNMR 180
DB 123 --FSCQSLTKDSATLSFLLENQFDALFTDPAMCGVILAEYLAKLPISLYLR-FGPCSLH 179
QY 181 SCGKLPAIPSTYVPVMTGLTRATLELVKNSMLSVLFHFMTQDYDHF-----WEEFYSK 236
DB 180 -IGQSPSPVSYVPRTFKSDHMTFQRLANFLNITL-----ENYVLCYSKEYELIAD 233
QY 237 ALGRPTTLCETGKAEIWLIRTYMDEFEPQYOPNFEFVGLHCAKALPREMENFVUS 296
DB 234 LKRVYSL-PALHONSMLWLRDEVEYPRVPMNIFIGTNCCKKGLSOFEEAYVNA 292
QY 297 SGEDSIIVFSLGSLFQONTVEERANITIASALQIPQVLMRYGKKRPTSTGANTRLYDWIP 356
DB 293 SGHEGIVFSGSVSEIPEKKAMEIAELGRIPTILMKRYGTSPNIAKKTITLKWLP 352
QY 357 QNDLGHKRTAFTTHGANGIYEAIYIGVAVPVGPIFGDQDINTAHMKAKAAVEINER 416
DB 353 QNDLGHKRAFAFTTHSGHGIYEGICNGVPMVMPFLFGDQDNKMRMETRAGVTLNVL 412
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QY 417 TMSEDLLRALRTVTTSSYKENMRLSRHHDPVPLRAVWIEFWMHKKALRS 476
DB 413 EMTADDEMLAKTVINKSKYENIMRLSLKDRPIELDLAVWVEYMHKCAPHLRP 472
QY 477 AAHDLTFWQHSIDVIGFLTCVATFIFLTKCFLSQOK-FNNTRIEK 525
DB 473 AAHDLTFWQHSIDVIGFLTAIVTVVFIYKSCAICGCKGCKGKRVK 522

RESULT 6
PCT-US92-00282-19
Sequence 19, Application PC/TUS9200282
GENERAL INFORMATION:
APPLICANT: OWENS, IDA S.
APPLICANT: RITTER, JOSEPH K.
TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
TITLE OF INVENTION: THEREIN.
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: CUSHMAN DARBY & CUSHMAN
STREET: 1615 L STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/00282
FILING DATE: 19920110
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, WATSON T.
REGISTRATION NUMBER: 26581
REFERENCE/DOCKET NUMBER: 91532-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 288 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-00282-19

Query Match 13.7%; Score 383.5; DB 5; Length 288;
Best Local Similarity 34.1%; Pred. No. 3.1e-33;
Matches 92; Conservative 52; Mismatches 117; Indels 9; Gaps 5;

QY 15 LFCV---GCGFGKVLVLPDCMSHMLNVKYLEELIVRGHEVTVLTHSKPSLIDYKPSA 71
DB 16 LFCVIGPVVSHGKILLIIVDSHMLSMGAIQDQQRHEIVVLA---PDASLYTRDA 72
QY 72 L-KREYVHMPDQRTENEIFVDLALNVLPGLSTWOSVYKLNDFVEIRGTLMKMGESFY 130
DB 73 FYTLKTYVPVFPQREVDKESFVSLGHNVFENDSFLQVITYKKIKKDSAMLLSGSHLH 132
QY 131 NOTLMKKLOETNYDVALIDPVIPCGDLMALLAVPVLRLRISVSGNMRSGKLPAIPLS 190
DB 133 NEMLASIAESSFDVWLDLPFCSPYIAQYISLPTVEFLH-ALPCSLEFEATQCPNPS 191
QY 191 YVPVMTGLTRATLELVKNSMLSVLFHFMTQDYDHFWEFYSKALGRPTTLCETVOK 250
DB 192 YVPRRLSSHDHMTLQKRNKMLIAFSONF-LCDVYYSYATLASSEFLQREVTYVDLLSS 250
QY 251 AEIWLIRTYMDEFEPQYOPNFEFVGLHC 280
```

Db 251 ASVWLFPSDFVADYPRIPMNVFVGINC 280

RESULT 7
US-08-942-012B-32

; Sequence 32, Application US/08942012B

; Patent No. 6235278

; GENERAL INFORMATION:

; APPLICANT: Miller, Lois K.

; APPLICANT: Lu, Albert

; APPLICANT: Diekrs, Peter

; APPLICANT: Black, Bruce

; TITLE OF INVENTION: Biological Insect Control Agents Expressing

; TITLE OF INVENTION: Insect-Specific Toxin Genes, Methods and Compositions

; FILE REFERENCE: 28-96a

; CURRENT APPLICATION NUMBER: US/08/942,012B

; PRIOR FILING DATE: 1997-10-01

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 32

; LENGTH: 515

; TYPE: PRT

; ORGANISM: Spodoptera littoralis nuclear polyhedrosis virus

US-08-942-012B-32

Query Match 12.7%; Score 356.5; DB 4; Length 515;
Best Local Similarity 24.9%; Pred. No. 6.9e-30;

Matches 133; Conservative 90; Mismatches 187; Indels 125; Gaps .23;

34 SHMLNVKYLEELVGHVETVLTSHKPSLIDYRKPSALKEFVHMPDRTENEIETVDL 93

31 SHQTFEDVYVNLRLRHSGLVVIS--PKIHNN-----HGRHREHNTLEIDV 77

94 ALNVLPGLSTWQSYKLNDF-----VEIKGTIKMCESTI 129

78 G-----SV--TNNEFFRLLODSKVSRRKGIIVSDSTVTRVNLTGLARMSAORE 124

130 YNQTLMKKLOETN--YDVMLIDVIPCGLDMLAEVLAVPVL--LRTISV-GNM 178

125 HQ--VKLLRSNQTDFVIVIAFV-----SYPLISYFKPDIVIOISSGHGA 172

179 E--RSCGKLPAELSYV---VPMTGL---TDRMTF-----LERVKNMLSYL 217

173 ENFETMGAVARHPYVYPPNMWRDRFGLSVWQTVROVTEIRLYMERSQLDADQSAAMKRO 232

218 FHFVLODDYHMEFEYSKALGRPTTLCETVGAELIWLIRTYWDEFPDPOYPNFEVVG 277

233 FCSKYPDVV-----ALRK-----NVHMMFVNTHPVDNTPVPSNOYLOG 273

278 LHCCKA-KALPKEMEN---FVSSGEDIVVSLGSLQ--NVTREKANIISALAOP 330

274 IVIDRAVTSVADEIDNLAELFLENS-TMGVYVYSLSSVRASDMSNMNVVEVFRSTP 332

331 QKVLWRY--KGRKPSLTGANTRLYDMPDNDLLGHPKTAFTTGGMNGIYBAIYGVPM 388

333 YVLMKVKDSKIFIPNIPSNVLQRMFPQRVLKHNKRVKVFITGGVOSTDEADAGVPM 392

389 VGVPIFGQDLNIAHMKAGAAVEINFKTMTSEDLRLKRTYTTSSYKENAMRLSRTH 448

393 FGVPIIMGDOFYVYVYETYGIGRGVDTLVDAKRLTEIVMDVADMEKYKNGTLMRLDAIM 452

449 DQVPRIDAVWIFEVVHRKGA-KHLBSAANDLTMEOHYSID-VIGELLTCVAT 501

453 DQPMRLEKAVYTERVARRKAKKHLGTRAVNTYSKIAMPDLIIPMLITFTST 507

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

; Patent No. 6235278

; GENERAL INFORMATION:

; APPLICANT: Miller, Lois K.

; APPLICANT: Lu, Albert

; APPLICANT: Diekrs, Peter

; APPLICANT: Black, Bruce

; TITLE OF INVENTION: Biological Insect Control Agents Expressing

; TITLE OF INVENTION: Insect-Specific Toxin Genes, Methods and Compositions

; FILE REFERENCE: 28-96a

; CURRENT APPLICATION NUMBER: US/08/942,012B

; PRIOR FILING DATE: 1997-10-01

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 33

; LENGTH: 460

; TYPE: PRT

; ORGANISM: Laccanobia oleracea granulovirus

US-08-942-012B-33

Query Match 12.2%; Score 341; DB 4; Length 460;
Best Local Similarity 24.8%; Pred. No. 2.8e-28;

Matches 127; Conservative 85; Mismatches 191; Indels 110; Gaps 22;

9 VELLQLFVCGGFCGKYL-VWPCD-MSHMLNVKYLEELVGHVETVLTSHKPSLIDY 66

3 ISILLALAVERRILCANILCEPPTPAYSHQSVFSAVYIKLSWAGHNVTIT-PMRAVDH 61

67 KRPSALKEFVHMPDRTENEIETVDLALNVLPGLST--WQSVTKLNPFVEIRGT--- 121

62 -----VH-----QVSSLSVHYHFNMLIK-NSTMIRKRGVADVE 93

122 -KMCCESTI-----YNQTLMKKLOETNVDVMLID-----PYIP 153

94 TTVTKENTNGNLNVAHEIKSPNTRRLRNKGNKRDLYCEAYSYILVFGLAYDAPYIQ 153

154 CGDLMAELVAVFVLTLSVCGNMRSCGKL-----APLSYVPVPMTG--LDRMTF 205

154 ----FSSGVAIPENFE--TWGGEVARNHNIKHPNTWRSDFSNSFEQOLMTEYNLEVAL 206

206 LERVKNMSLVLFHNMIDYDHFMEFEYSKALGRPTTLCETVGAELIWLIRTYWDEFP 265

207 LEKEENMLK-----RDEGTH-----DMCQLKSVMLEFIVPAVFDNN 246

266 QYOPNFEFVGLHC-KPAKALPKEMENFVSSGEDIVF--SLGSLPONTTEKANIYA 323

247 RQVSNINIOYLGSIHLKPRTVRDSLLSPME--KHIIIVASFGSGI-DVLMNDANLIA 302

324 S---ALAOIPQKVLWRYK--KPSTLGANTRLYDMPDNDLLGHPKTAFTTGGMNGI 378

303 EFVRVFNISIPYALWQVSSIIHLKHNISNVHTQSMFPQDVLNHPHKLKVFITGGVOST 362

379 YVAITHGVNMGVPIFGQDLNIAHMKAGAAVEINFKTMTSEDLRLKRTYTTSSYKE 438

363 DEAVNSGVPMIGIPITMGDOFYVYVRYTELGIGEKVNIILRLEEGIDRKIKLVHNSKTEL 422

439 NAMRLSRIHHQPVKPLDRAVWIFEVVHRKGA 471

423 NIKRLNLFSDPVPKPLKALMFTNYVLANKDA 455

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

Db

```

ADDRESSEE: CUSHMAN DABRY & CUSHMAN
STREET: 1615 L STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/00282
FILING DATE: 19920110
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, WATSON T.
REGISTRATION NUMBER: 26581
REFERENCE/DOCKET NUMBER: 91532-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 286 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-00282-9

```

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Query Match      11.9%; Score 333.5; DB 5; Length 286;
Best Local Similarity 30.0%; Pred. No. 8.3e-28;
Matches 88; Conservative 53; Mismatches 119; Indels 33; Gaps 8;

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QY 6 SALFLLTLQFCVCGFCGKVLVWPCDMSHMLNKKVILEELVGHETVLTLSKPSLID 65
DB 13 AGVFFLLMGWVG-----DKLLVYPQDGSNHNHFAERSFLTAPQTEYRNMMIVIGLYFIN 68
QY 66 YRPSALKFEVYVHMPDTE-----ENEIFVDLALNVLPGSLSTWQSVTKLDFVEEI 117
DB 69 ESKYTRK--LYPVYDQDELLKNRYQSGNNHFAERSFLTAPQTEYRNMMIVIGLYFIN 125
QY 118 RGTLMKCESTIYNOTLTKLQETNYDMLIDPIVPGDLMALLAVFVLTILKISVGN 177
DB 126 -----CQSLQDRDLNLFPEKSKFDA-LPDALPGCVLLAEYLGLPSVYLFYR-GPPCS 176
QY 178 MERSCGKLPAISLVVPMGTGLTRMTFLERKNSMLSV---LFHFIQDYDHFWEF 233
DB 177 LEHFTSRSPDVSTIPRCYTFPSDHMTFSOVANFLVLEPYLFYCLFSKY-----DEL 231
QY 234 YSKALGRPTTLCETVGAKEIWLIRTYWDFEPPPOYPNFEFVGLHCKPARAL 286
DB 232 ASAVLKRDVDTITLYKQSVMLRDFVLEYRPRVPMVPIGGINCKRRDL 284

```

```

RESULT 10
US-08-942-012B-29
Sequence 29, Application US/08942012B
Patent No. 6235278
GENERAL INFORMATION:
APPLICANT: Miller, Lois K.
APPLICANT: Lu, Albert
APPLICANT: Dierks, Peter
APPLICANT: Black, Bruce
TITLE OF INVENTION: Biological Insect Control Agents Expressing
FILE REFERENCE: 28-96a
TITLE OF INVENTION: Insect-Specific Toxin Genes, Methods and Compositions
CURRENT APPLICATION NUMBER: US/08/942.012B
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: 08/729,606

```

```

PRIOR FILING DATE: 2000-10-01
NUMBER OF SEQ ID NOS: 33
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 29
LENGTH: 488
TYPE: PRT
ORGANISM: Lymantria dispar nucleopolyhedrovirus
US-08-942-012B-29

```

```

Query Match      11.7%; Score 329; DB 4; Length 488;
Best Local Similarity 25.4%; Pred. No. 6.2e-27;
Matches 126; Conservative 83; Mismatches 213; Indels 74; Gaps 19;

```

```

QY 13 LQFCVCGFCGK---VLWPC-DMSHMLNKKVILEELVGHETVLTLSKPSLIDY 66
DB 5 LIVCLCWSAKSANLALAFPTPSYSHQVFRVYVLLAERGAIVYI---RLTVNDF 61
QY 67 RKPALKFEVYVHMPDTEENELFVDL--ALNVLPGSLSTWQSV---VTKLDFVEIRG 119
DB 62 -----NNAGNLTITIDLDGDLILMKASTHRRKGIADDTYADNYE 106
QY 120 TLKMCESFIYNOTLTKLQET--NYDMLIDPIVPGDLMALLA--VPYLTIRISVG- 175
DB 107 ALYRWVDRQIHSEFPORHLASRRGYDLVLEAFVYALASHLEGDPVYV--QISSG 163
QY 176 -----GNMERSCGKLP-----APLSYVVPMTGLTRMTFLERKNSMLSVLFH 219
DB 164 ATAEFETMGATSRHPRYPLMRFNPGPLSV---WDGVELYTELR-----LQREFG 213
QY 220 FWIODYDHFWEFYSKALGRPTTLCETVGAKEIWLIRTYWDFEPPPOYPNFEFVGLH 279
DB 214 LLADRDQALTKRRRGPAPG---LRELRSRVLLFVNHSVFNNRPVPSVQYLGGLH 269
QY 280 C--KPAALKREMEFQSSGDSQIVFVSIGS--LFONTTEKANIITASLAQIPQVLM 335
DB 270 LHDRAEPLSEAVARFLDES--RRGVYVVSFGSGIATDMDMAALLDLAKMPYDVLW 328
QY 336 RYKGRKPS--TLGATRLYDMIPQNDLGHPRKAFITHGNGNGIYEALHYGVPMWPIF 394
DB 329 KHDRVQGLTIPANVYQKFAQFEVLQHKVKAFFVYQAGVQSDAEVENVLPVGPIM 388
QY 395 GDQDLNIAHMKAKGAVEINFTKMTSEDLLKALRTVITDSSYKENAMRLSRHHDPVKP 454
DB 389 GDQAFNHRVYELDIGALDTRTLAADLARAVEQVSDRAYRENRLRLRHQCAP 448
QY 455 LDRAVFWEIETVRHKG 470
DB 449 THKAVWYTEHALRDRG 464

```

```

RESULT 11
US-08-942-012B-30
Sequence 30, Application US/08942012B
Patent No. 6235278
GENERAL INFORMATION:
APPLICANT: Miller, Lois K.
APPLICANT: Lu, Albert
APPLICANT: Dierks, Peter
APPLICANT: Black, Bruce
TITLE OF INVENTION: Biological Insect Control Agents Expressing
FILE REFERENCE: 28-96a
TITLE OF INVENTION: Insect-Specific Toxin Genes, Methods and Compositions
CURRENT APPLICATION NUMBER: US/08/942.012B
CURRENT FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: 08/729,606
PRIOR FILING DATE: 2000-10-01
NUMBER OF SEQ ID NOS: 33
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 30
LENGTH: 488
TYPE: PRT
ORGANISM: Manesstra brassicae nuclear polyhedrosis virus

```

US-08-942-012B-30

Query Match	11.7%;	Score 329;	DB 4;	Length 488;
Best Local Similarity	25.4%;	Pred. No. 6.2e-27;		
Matches 126;	Conservative 83;	Mismatches 213;	Indels 74;	Gaps 19;

QY	13	LQLECVGGFGFCG	----	VLWPG-	DMSHMLVAKVLELLRYRGEVYVILHNSKQ-SLIDY	66	
Db	5	LIVCLICMSAARSANILAIYPTPSYSHQVLFKRAYVELLERGHAVIY	----	RLIYVDE	61		
QY	67	RKPSALFEVVMHMODRTENEIFVDL	----	ALANVLPGLSTWOS	----	VILKDNFEVIRG	119
Db	62	-----	-----	NRAGHLTTIDDDGDLILLMKASPTTHRRKGIVADPVTADNTE	1060		
QY	120	TLKMMCSFIIYNOILMKIOT	----	NYDVMILDPYIPCGDMLAELLA	----	VPPVLTIRISVG-	175
Db	107	ALVRYWDKQIHSEPPORILKARSGRYDILVEAFVADYALLASHLEGVPAV	----	QISSGH	1633		
QY	176	-----	-----	GNMERSCGKLP	-----	APLSYVVPMTGTGLDRMTFLERYKNSMLSTVLFH	219
Db	164	ATAENFETMGATSIHRPHRYPLRMFNGPLSV	-----	MDGVRELITYELR	-----	LQREFC	21.3
QY	220	FWIDYDYHFEHEERYSKALGPTTILCETVYGAELTWLRTWDEFP	----	POPYQDNFEFGGLH	279		
Db	214	LLADRODALLKRRRGPEKPPG	----	LRRLRSVRLLEPNVNSHVEFNPNRPVPSVOYLGGH	2659		
QY	280	C--RPKALPKEMENFVOSSEGDIVVFSLGS	----	LFOVNTYEKANIIJASALAOIPOKVLN	3353		
Db	270	LHDRRAEPLSEAVARFLDES	----	RGVVVYVSPGSLATEDMDADMAALLDAFKMMYRDYLN	328		
QY	336	RYKSKKPS--TLGANTRLDYWTIPQDILLGHPTKAFITIHGCMNGIYEALIGVPRVAGPIF	394				
Db	329	KHDSRVDCGLTIPRANFVQKMAPOAEVYLOHKNVKAFVYQAGVQSTDEAVENMLVPLVAGVPLM	388				
QY	395	GDQDLNIIAHMKAKGAAYEINFKTTSIEDLLFALTYVTSSYKENMARLSRIHHQDVPK	454				
Db	389	GDQAFNHARYVELGIGVALDATRTLTADLIAAAYBQVYISDRAYRNNELRLRLRLHQCASP	448				
QY	455	LDRAVFWTEFPYMRKKG	470				
Db	449	THKAVWTEHRLRRDG	464				

RESULT 12
PCT-US92-00282-11
Sequence 11, Application PC/TUS9200282
GENERAL INFORMATION:
APPLICANT: OWENS, IDA S.
APPLICANT: RITTER, JOSEPH K.
TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
TITLE OF INVENTION: THEREIN.
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: CUSHMAN DABRY & CUSHMAN
STREET: 1615 L STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/00282
FILING DATE: 19920110
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, MATSON T.
REGISTRATION NUMBER: 26581
REFERENCE/DOCKET NUMBER: 91532-PC7

TELECOMMUNICATION INFORMATION: 200 OCT 2000

TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944

TELEX: 6714627 CUSH
INFORMATION FOR SEO ID NO: 11:

SEQUENCE CHARACTERISTICS:
LENGTH: 289 amino acids

TYPE: AMINO ACID

STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: protein
US92-00282-11

	Match	Score
1	11.68	10.70
2	10.70	10.70
3	10.70	10.70
4	10.70	10.70
5	10.70	10.70
6	10.70	10.70
7	10.70	10.70
8	10.70	10.70
9	10.70	10.70
10	10.70	10.70
11	10.70	10.70
12	10.70	10.70
13	10.70	10.70
14	10.70	10.70
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35	10.70	10.70
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69	10.70	10.70
70	10.70	10.70
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89	10.70	10.70
90	10.70	10.70
91	10.70	10.70
92	10.70	10.70
93	10.70	10.70
94	10.70	10.70
95	10.70	10.70
96	10.70	10.70
97	10.70	10.70
98	10.70	10.70
99	10.70	10.70
100	10.70	10.70

st Local Similarity 30.7
tches 89; Conservative

11. LTLOLFVCVGGCGFCGKVLWPC

16 IIII-SVOPWAESCXYI-WBPT

Query Match	11.6%;	Score 326;	DB 5;	Length 289;
Best Local Similarity	30.7%;	Pred. No. 5.5e-27;		
Matches	89;	Conservative 47;	Mismatches 122;	Indels 32;
			Gaps	6

```

Oy 11 LLLLOFGCGCGCGGAVPCWPCDMSHMLNKKVTEIELLYRGHEVYLVNHSKSLIDYRKPS 70
Db 16 LLLLSTVQPAHESGKVLYVPIPDGSHWLSMRALNDLHARGQVYVLLVEMVYIKENNF 75
Oy 71 AKFEVVMPODRTENEIYVDLALNVLPGLSWQSYKLKDNDFVEIRGLTKM----- 124
Db 76 TLTYYAISWTD-----FFDRLL-----LGHQSFETHELTKMFSRMAINNNSLI 123
Oy 125 -----CESIVYNOFTMKKLOENYVYMLIDPIPCGDMLAEILAVPULIRISVGMMR 180
Db 124 IHRSCVELLHNEALRIHLHAATSEFVYLTDPHILCAVYAKTSLIPAVFPLR-NIPCCDD 187
Oy 181 SCGLIPADLSVPPVPMGTLDRTMFLERVKNSM-----LSVLEHMIODYDHMEEFYSK 236
Db 183 KGTQCPNPSSTYIRLLTINSDHMFLQVKNMLXPALSYCJHAVSAPY-----ASLASE 237
Oy 237 ALGRPTTICETVYKAEIMLITFYNDDEEPOPOYQONFEFVGLHCKPAKAL 286
Db 238 LFRQVSVYVDLVSHASVWLFEGDFVMDPRIMPNVWFGIGINCAANGPPL 287

```

RESULT 13
PCT-US92-00282-15
Sequence 15 Application PC/TUS9200282
GENERAL INFORMATION:
APPLICANT: OWENS, IDA S.
APPLICANT: RITTER, JOSEPH K.
TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
TITLE OF INVENTION: THEREIN.
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: CUSHMAN DABRY & CUSHMAN
STREET: 1615 L STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/00282
FILING DATE: 19920110
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, WATSON T.
REGISTRATION NUMBER: 26561
REFERENCE/DOCKET NUMBER: 91532-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:
 LENGTH: 289 amino acids
 TYPE: AMINO ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 PCT-US92-00282-15

Query Match 11.6%; Score 326; DB 5; Length 289;
 Best Local Similarity 29.6%; Pred. No. 5.5e-27;
 Matches 86; Conservative 53; Mismatches 118; Indels 34; Gaps 6;

QY 11 LLLQLFCVCGCGKVLVPCDMSHMLNVKYLLEELIVRGHEVTLTSSKPSLIDYRKPS 70
 DB 16 LLLLSVQPMASGKVLVPTDGSFHWLSMRVLRHLRHARGQAVLVLEVMNHKEENFF 75
 QY 71 ALRFEVHMPDRTE-----ENEIVDLALNVLPGLSTWQSVYIKLNDFFVEIRG 119
 DB 76 TLTITVAISWIDEDRHLVHGTOLYFTEHFLK-----KFFRSWAMINNSL---- 122
 QY 120 TLKMCSEFIYNOTIMKLOETNYDMLIDPVICGDLMAELLAVPFLTLRISVGGM 179
 DB 123 VYHSCVELLHNEALIHNLATSPDVLTDPVNLCAVLAKYLSIPYVEFLK-NIPCDLD 181
 QY 180 RSCGKLAPLSYVVPMTGLDRMTFLERKNSM-----LSVLFHFMTODYDYHFMEEFYS 235
 DB 182 FKGTCCNPSSYIPRLITLTSNDHMTFMQRVKNMLYPLALSYICHAFSAPY-----ASLAS 236
 QY 236 KALGRPTTLCETVGKAEIWLIRTYMDFEFPQOPNFEFVGGLHCKRAKAL 286
 DB 237 ELFGREYSVVDILSHASVWLFRRGDFVMDYPRPIPMNVFVIGINCANKRP 287

RESULT 14

PCT-US92-00282-13
 Sequence 13, Application PC/TUS9200282
 GENERAL INFORMATION:
 APPLICANT: OWENS, IDA S.
 TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
 TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
 NUMBER OF SEQUENCES: 40
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CUSHMAN DARBY & CUSHMAN
 STREET: 1615 L STREET, N.W.
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20036-5601
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US92/00282
 FILING DATE: 19920110
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: SCOTT, WATSON T.
 REGISTRATION NUMBER: 26581
 REFERENCE/DOCKET NUMBER: 91532-PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 TELEX: 6714627 CUSH
 INFORMATION FOR SEQ ID NO. 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 289 amino acids
 TYPE: AMINO ACID
 STRANDEDNESS: single
 TOPOLOGY: linear

MOLECULE TYPE: protein
 PCT-US92-00282-13

Query Match 11.5%; Score 321; DB 5; Length 289;
 Best Local Similarity 29.5%; Pred. No. 1.9e-26;
 Matches 89; Conservative 48; Mismatches 109; Indels 56; Gaps 7;

QY 11 LLLQLFCVCGCGKVLVPCDMSHMLNVKYLLEELIVRGHEVTLT-----HSKP----- 61
 DB 16 LLLLSVQPMASGKVLVPTDGSFHWLSMRVLRHLRHARGQAVLVLEVMNHKEENFF 75
 QY 62 SLIDYRKPSALK-----FEVYHMPDRTEENEIVDLALNVLPGLSTWQSVI 108
 DB 76 TLTINAVWTKEDRVLTLGTGGFFTEHFLKRSMAIMNNVSL----- 122
 QY 109 KLNDFEVEIRGTLKMCSEFIYNOTIMKLOETNYDMLIDPVICGDLMAELLAVPFL 168
 DB 123 -----ALHRCVELLHNEALIHNLATSPDVLTDPVNLCAVLAKYLSIPYVE 171
 QY 169 TLRISVGGMERSGKLPAPLSYVVPMTGLDRMTFLERKNSM-----LSVLFHFMTOD 224
 DB 172 FWRY-IPCDLDIFKGTCCNPSSYIPKILITLTSNDHMTFMQRVKNMLYPLALSYICHTSAP 230
 QY 225 YDYHFMEEFYSKALGRPTTLCETVGKAEIWLIRTYMDFEFPQOPNFEFVGGLHCKRAK 284
 DB 231 Y-----ASLASLFGREYSVVDLVSVWLFRRGDFVMDYPRPIPMNVFVIGINCANGK 285
 QY 285 AL 286
 DB 286 PL 287

RESULT 15

PCT-US92-00282-26
 Sequence 26, Application PC/TUS9200282
 GENERAL INFORMATION:
 APPLICANT: OWENS, IDA S.
 TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
 TITLE OF INVENTION: THE GENETIC LOCUS UGT1 AND A MUTATION
 NUMBER OF SEQUENCES: 40
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CUSHMAN DARBY & CUSHMAN
 STREET: 1615 L STREET, N.W.
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20036-5601
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US92/00282
 FILING DATE: 19920110
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: SCOTT, WATSON T.
 REGISTRATION NUMBER: 26581
 REFERENCE/DOCKET NUMBER: 91532-PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 TELEX: 6714627 CUSH
 INFORMATION FOR SEQ ID NO. 26:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 98 amino acids
 TYPE: AMINO ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein

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